



RECEIVED

SEP 22 2004

OFFICE OF PETITIONS

PTO/SB/64a (11-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED
FOR FAILURE TO NOTIFY THE OFFICE OF A FOREIGN OR INTERNATIONAL
FILING (37 CFR 1.137(f))**

Docket Number (Optional)

012-46

First named inventor: John Santhoff et al.

Application No.: 09/599,969

Art Unit: 2634

Filed: June 21, 2000

Examiner: Sam K Ahn

Title: ULTRA WIDE BAND TRANSMITTER

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX: (703) 872-9306

NOTE: If information or assistance is needed in completing this form, please contact Petitions
Information at (703) 305-9282.

The above-identified application became abandoned pursuant to 35 U.S.C. 122(b)(2)(B)(iii) for failure to timely notify the Office of the filing of an application in a foreign country or under a multinational international treaty that requires publication of applications eighteen months after filing. The date of abandonment is the day after the expiration date of the forty-five (45) day period set in 35 U.S.C. 122(b)(2)(B)(iii).

PURSUANT TO 37 CFR 1.137(f), APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION
UNDER 37 CFR 1.137(b)

1. Petition fee

☒ Small entity-fee \$ 665.00 (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27.☐ Other than small entity - fee \$ _____ (37 CFR 1.17(m))

2. Notice of Foreign or International Filing (35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c))

Subsequent to the filing of the above-identified application, an application was filed in another country, or under a multinational international treaty (e.g., filed under the Patent Cooperation Treaty), that requires publication of applications eighteen months after filing. The filing date of the subsequently-filed foreign or international application is June 21, 2001.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Adjustment date: 09/21/2004
01 FC:2453
WADELRI 0000067 0959969
AKELLEY

09/21/2004 WADELRI 0000067 0959969

665.00 00

01 FC:2453

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT: The entire delay in filing the required notice of a foreign or international filing from the due date for the required notice until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional.

[NOTE. The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D))].

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

September 14, 2004

Date



Signature

Telephone

Number: 760-607-0844

Peter R. Martinez

Typed or printed name

1969 Kellogg Avenue

Address

Carlsbad, CA 92008

Address

Enclosures: ☒ Fee Payment

☐ Additional sheets containing statements establishing unintentional delay

☒ Other: Fee Transmittal (PTO/SB/17), Transmittal (PTO/SB/21), Statement (PTO/SB/96), Return Postcard

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

☒ deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

☐ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) 872-9306.

September 14, 2004

Date



Signature

Peter R. Martinez

Type or printed name of person signing certificate



PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | |
|---|------------------------|----------------|
| TRANSMITTAL FORM (to be used for all correspondence after initial filing) | Application Number | 09/599,969 |
| | Filing Date | 06/21/2000 |
| | First Named Inventor | Roberto Aiello |
| | Art Unit | 2634 |
| | Examiner Name | Sam K Ahn |
| Total Number of Pages in This Submission | Attorney Docket Number | 012-46 |

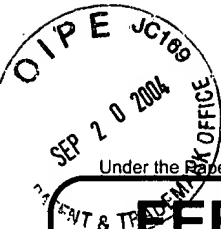
RECEIVED SEP 22 2004 OFFICE OF PETITIONS

| ENCLOSURES (Check all that apply) | | |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance communication to Technology Center (TC) |
| <input checked="" type="checkbox"/> Dep. Acc. Authorization | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Appendix | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Ext. of Time Request | <input type="checkbox"/> Terminal Disclaimer | <input type="checkbox"/> Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Request for Refund | Return Receipt Postcard |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> CD, Number of CD(s) _____ | PTO/SB/64a & PTO/SB/96 |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | Remarks | Check#10682 for \$665.00 |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application | The Commissioner is hereby authorized to charge any additional fees due in connection with this submission to Deposit Account 50-3143, in the name of Pulse~LINK, Inc. | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | |
| Firm or Individual name | Peter R. Martinez | |
| Signature | | |
| Date | September 14, 2004 | |

| CERTIFICATE OF TRANSMISSION/MAILING | | |
|---|-------------------|--------------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. | | |
| Typed or printed name | Peter R. Martinez | |
| Signature | | Date |
| | | September 14, 2004 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 665.00

Complete if Known

Application Number 09/599,969

Filing Date 06/21/2000

First Named Inventor Roberto Aiello

Examiner Name Sam K Ahn

Art Unit 2634

Attorney Docket No. 012-46

RECEIVED

SEP 22 2004

OFFICE OF PETITIONS

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit
Account
Number
Deposit
Account
Name

50-3143

Pulse~LINK, Inc.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any fee(s) due during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|-------------------------------|-------------------------------|------------------------|----------|
| 1001 770 | 2001 385 | Utility filing fee | |
| 1002 340 | 2002 170 | Design filing fee | |
| 1003 530 | 2003 265 | Plant filing fee | |
| 1004 770 | 2004 385 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Total Claims | -20** = | X | |
| Independent Claims | -3** = | X | |
| Multiple Dependent | | | |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|-------------------------------|-------------------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 86 | 2201 43 | Independent claims in excess of 3 |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 86 | 2204 43 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or reissue) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify) Petition under 37 CFR 1.137(f)

665.00

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 655.00

SUBMITTED BY

(Complete (if applicable))

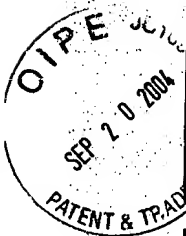
Name (Print/Type) Peter R. Martinez Registration No. 42,845 Telephone 760-607-0844

Signature Date September 14, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003, Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 665.00)

Complete if Known

Application Number 09/599,969

Filing Date 06/21/2000

First Named Inventor Roberto Aiello

Examiner Name Sam K Ahn

Art Unit 2634

Attorney Docket No. 012-46

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit
Account
Number
Deposit
Account
Name

50-3143

Pulse-LINK, Inc.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any fee(s) due during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|-------------------------------|-------------------------------|------------------------|----------|
| 1001 770 | 2001 385 | Utility filing fee | |
| 1002 340 | 2002 170 | Design filing fee | |
| 1003 530 | 2003 265 | Plant filing fee | |
| 1004 770 | 2004 385 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Independent Claims | -20** = | X | |
| Multiple Dependent | -3** = | X | |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|-------------------------------|-------------------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 86 | 2201 43 | Independent claims in excess of 3 |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 86 | 2204 43 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|--|-------------------------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920 | 1804 920 | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840 | 1805 1,840 | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or reissue) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |
| Other fee (specify) Petition under 37 CFR 1.137(f) | | | 665.00 |

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 655.00)

SUBMITTED BY

| | | | | | |
|-------------------|-------------------|-----------------------------------|--------------------|-----------|--------------|
| Name (Print/Type) | Peter R. Martinez | Registration No. (Attorney/Agent) | 42,845 | Telephone | 760-607-0844 |
| Signature | | Date | September 14, 2004 | | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/96 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)**RECEIVED****SEP 22 2004**Applicant/Patent Owner: Pulse-LINK, Inc.Application No./Patent No.: 09/599,969 Filed/Issue Date: June 21, 2000**OFFICE OF PETITIONS**Entitled: ULTRA WIDE BAND TRANSMITTERPulse-LINK, Inc., a Delaware Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Inventors To: Fantasma Networks, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 011088, Frame 0981, or for which a copy thereof is attached.
2. From: Fantasma Networks, Inc. To: Sherwood Partners, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 012784, Frame 0640, or for which a copy thereof is attached.
3. From: Sherwood Partners, Inc. To: Pulse-LINK, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 013534, Frame 0812, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

September 14, 2004

Date

760-607-0844

Telephone number

John Santhoff

Typed or printed name

Signature

CEO, Pulse-LINK, Inc.

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



NOVEMBER 09, 2000



PTAS

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



101469731A

SIERRA PATENT GROUP, LTD.
TERI MUIR
P.O. BOX 6149
STATELINE, NV 89449

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/05/2000

REEL/FRAME: 011088/0981
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
AIELLO, ROBERTO

DOC DATE: 08/23/2000

ASSIGNOR:
ROGERSON, GERALD

DOC DATE: 08/23/2000

ASSIGNOR:
SPARRELL, CARLTON

DOC DATE: 08/23/2000

ASSIGNOR:
TUFT, JACOB

DOC DATE: 08/23/2000

ASSIGNEE:
FANTASMA NETWORKS
3250 ASH STREET
PALO ALTO, CALIFORNIA 94308

SERIAL NUMBER: 09599969
PATENT NUMBER:

FILING DATE: 06/21/2000
ISSUE DATE:

011088/0981 PAGE 2

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT

WHEREAS, we, Roberto Aiello, a citizen of Italy, residing at 470 Alger Drive, Palo Alto, California 94306, Gerald Rogerson, a citizen of the United States, residing at 2204 Hermosa Court, Morgan Hill, California 95037, Carlton Sparrell, a citizen of the United States, residing at 2100 Oberlin Street, Palo Alto, California 94306, and Jacob Tuft a citizen of the United States, residing at 838 24th Avenue, San Francisco, California 94121, have invented a "**ULTRA WIDE BAND TRANSMITTER**" for which we have executed application papers for a U.S. patent thereon, which was filed on June 21, 2000, serial No. not yet assigned; and

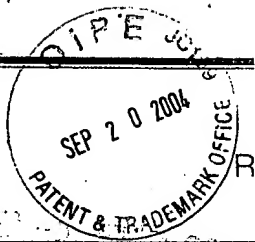
WHEREAS, Fantasma Networks, a Delaware corporation, having a place of business at 3250 Ash Street, Palo Alto, California 94308, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefore in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, Roberto Aiello, Gerald Rogerson, Carlton Sparrell and Jacob Tuft, do sell, assign, transfer and set over unto the said Fantasma Networks, its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to Fantasma Networks, its successors and assigns, in accordance with this Assignment.

WITNESS OUR HAND at Palo Alto, California, this 23rd day of August, 2000.

Roberto Aiello
Roberto Aiello
Carlton Sparrell
Carlton Sparrell

Gerald Rogerson 8/21/00
Gerald Rogerson
Jacob Tuft 8-17-00
Jacob Tuft

101469731
PATENTS ONLY

HEET

U.S. Department of Commerce
Patent and Trademark Office

9.500

To the Honorable Assistant Commissioner for Patents: Please record the attached original documents or copy thereof

1. Names of conveying party(ies)

Roberto Aiello, Gerald Rogerson,
Carlton Sparrell and Jacob Tuft

2. Name and address of receiving party(ies)

Name: Fantasma Networks,

Internal Address: _____

Additional names (s) of conveying party(ies) attached () yes (X) no

3. Nature of conveyance:

- (X) Assignment () Merger
() Security Agreement () Change of Name
() Other _____

Street Address: 3250 Ash StreetCity: Palo Alto State: CA Zip: 94308Execution Date: August 23, 2000

Additional names (s) & address(es) attached? () Yes (X) No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of application is _____

A. Patent Application No.(s)

09/599,969

B. Patent No.(s)

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sierra Patent Group, Ltd.

Internal Address: _____

7. Total fee (37CFR 3.41).....\$40.00

(X) Enclosed

() Authorized to be charged to deposit account

8. Deposit account Number: 50-0612Address: P.O. Box 6149City: Stateline State: NV Zip: 89449

(Attached duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Teri Muir

Signature

8/29/00

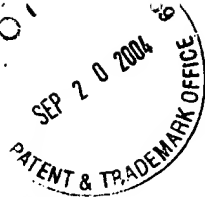
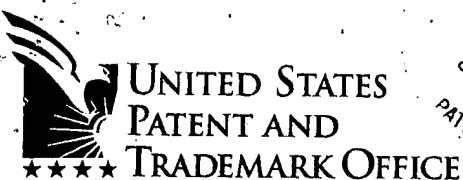
Date

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents 5

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignment, Washington, D.C. 20231



CPI-

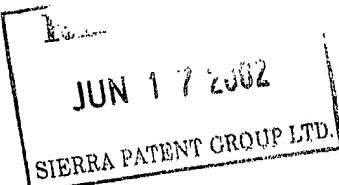
012-46

JUNE 11, 2002

PTAS

Chief Information Officer
Washington, DC 20231
www.uspto.gov

SIERRA PATENT GROUP, LTD.
STEPHANIE DAVIS
P.O. BOX 3149
STATELINE, NV 89449



102058130A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/13/2002

REEL/FRAME: 012784/0640
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FANTASMA NETWORKS, INC.

DOC DATE: 04/17/2001

ASSIGNEE:

SHERWOOD PARTNERS, INC.
1849 SAWTELLE BLVD, SUITE 543
LOS ANGELES, CALIFORNIA 90025

SERIAL NUMBER: 09599969

FILING DATE: 06/21/2000
ISSUE DATE:

PATENT NUMBER:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT OF PATENTS

This Assignment granted as of the 17th day of April, 2001, by FANTASMA NETWORKS, INC., a Delaware Corporation ("Assignor") to SHERWOOD PARTNERS, INC., a California corporation ("Assignee"), as follows:

WHEREAS, the Assignor wishes to assign all of its right, title and interest in and to certain U.S. patent registrations and patent applications (collectively, the "Patents") as more particularly set forth on Schedule A attached hereto to the Assignee and to assign all of Assignor's liens, claims and encumbrances respecting the Patents (collectively, the "Rights").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, the Assignor hereby assigns transfers and delivers its entire right, title and interest, including all rights of action and damages for past infringement, in and to the Patents and the Rights, together with the registration of such of said Patents as are registered the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, licensees or other legal representatives.

IN WITNESS WHEREOF, the undersigned, by and through this instrument to be executed on the date first written above.

FANTASMA NETWORKS, INC.
a Delaware Corporation
("Assignor")

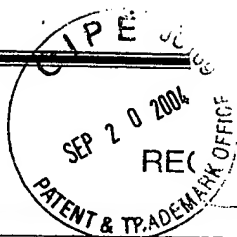
By: J. C. Be 2

Title: VP Finance & Administration

SHERWOOD PARTNERS, INC.
a California corporation
("Assignee")

By: _____

Title: _____



04-17-2002

102058130
PATENTS ONLY

ET

U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Assistant Commissioner for Patents: Please record the attached original documents or copy thereof

1. Names of conveying party

Fantasma Networks, Inc.

2. Name and address of receiving party

Name: Sherwood Partners, Inc.

Internal Address: _____

Street Address: 1849 Sawtelle Blvd, Suite 543City: Los Angeles State: CA Zip: 90025

Additional names (s) & address(es) attached? () Yes () No

Additional names (s) of conveying party(ies) attached () yes (X) no

3. Nature of conveyance:

- (X) Assignment () Merger
 () Security Agreement () Change of Name
 () Other _____

Execution Date: April 17, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of application is _____

A. Patent Application No.(s)

09/599,969

B. Patent No.(s)

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sierra Patent Group, Ltd.

Internal Address: _____

Address: P.O. Box 6149City: Stateline State: NV Zip: 89449

7. Total fee (37CFR 3.41).....\$40.00

(X) Enclosed

() Authorized to be charged to deposit account

8. Deposit account Number: 50-0612

(Attached duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Stephanie Davis

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents 3

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignment, Washington, D.C. 20231

4/17/2002 6TON11 00000022 09599969

1 FC:581

40.00 OP

 OFFICE OF PUBLIC RECORDS
 2002 APR -3 AM 11:08
 FINANCE SECTION

Legal Firm

Sierra Patent Group, Ltd.

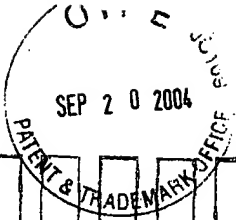
BEST AVAILABLE COPY

Your Ref #

Interval Ref. #

Application Title

Serial #



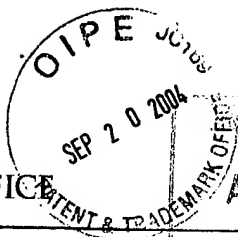
| | | |
|----|---|------------|
| 1 | Antenna Comprising Two Separate Wideband Notch Regions on One Coplanar Substrate | 09/384,952 |
| 2 | BASEBAND WIRELESS NETWORK FOR ISOCRONOUS COMMUNICATION | 09/393,126 |
| 3 | PULSE SHAPING FOR A BASEBAND WIRELESS TRANSMITTER | 09/408,414 |
| 4 | BASE BAND RECEIVER APPARATUS AND METHOD | 09/433,520 |
| 5 | MEDIUM ACCESS CONTROL PROTOCOL FOR CENTRALIZED WIRELESS NETWORK COMMUNICATION | 09/393,121 |
| 6+ | (PROVISIONAL) | 60/165,360 |
| 7 | FREQUENCY HOPPING FOR BASEBAND TRANSMITTERS | 09/393,040 |
| 8 | AN APPARATUS AND METHOD FOR MANAGING VARIABLE-SIZED DATA SLOTS WITHIN A TIME DIVISION | 09/393,122 |
| 9 | AN APPARATUS AND METHOD FOR MANAGING VARIABLE-SIZED DATA SLOTS WITH TIME STAMP | 09/480,837 |
| 10 | WIRELESS TDMA SYSTEM AND METHOD FOR NETWORK COMMUNICATIONS | 09/603,310 |
| 11 | SYSTEM AND METHOD FOR OPTIMIZING NETWORK COMMUNICATIONS IN AN ULTRA WIDE BAND | 09/599,973 |
| 12 | ULTRA WIDE BAND TRANSMITTER | 09/599,969 |
| 13 | ULTRA WIDE BAND BASE BAND RECEIVER | 09/599,966 |
| 14 | ANTENNA COMPRISING TWO WIDEBAND NOTCH REGIONS ON ONE COPLANAR SUBSTRATE | 09/692,906 |
| 15 | ULTRA-WIDE BAND COMMUNICATION SYSTEM WITH AMPLITUDE MODULATION AND TIME | |
| 16 | Detecting an Ultra Wide Band Transmitter | |
| 17 | Link Adaptation and Receiver Calibration | |
| 18 | Peak Detector for Recovering Data | |
| 19 | Message Forwarding with Symmetric Encryption | |
| 20 | Maintaining isochronous clocks in a wireless network | |
| 21 | Compensation for a Narrow Band Interferer | |

Any PCT or foreign applications that fall under the US cases that are listed above, our file number will also be the reference for those cases.

If you note any discrepancies in our information, please notify Janssen/CMP/US/650.01/2/01/03



UNITED STATES
PATENT AND
TRADEMARK OFFICE



APR 07 2003

APRIL 03, 2003

SIERRA PATENT GROUP, LTD.
WILLIAM P. WILBAR
P.O. BOX 6149
STATELINE, NV 89449

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



102299955A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/25/2002

REEL/FRAME: 013534/0812
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SHERWOOD PARTNERS, INC.

DOC DATE: 05/09/2001

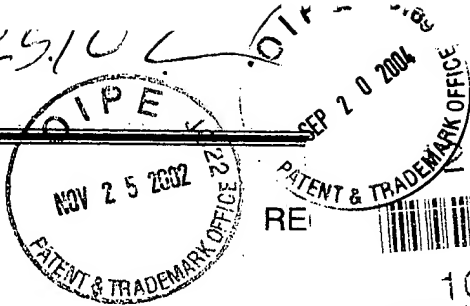
ASSIGNEE:

PULSE LINK, INC
9155 BROWN DEER RD, #8
SAN DIEGO, CALIFORNIA 92121

SERIAL NUMBER: 09599969
PATENT NUMBER:

FILING DATE: 06/21/2000
ISSUE DATE:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



-03-2002

:ET

To the Honorable Assistant Commissioner for Patents: Please record the attached original documents or copy thereof

1. Names of conveying party(ies)
SHERWOOD PARTNERS, INC.

2. Name and address of receiving party(ies)

Name: PULSE LINK, INC

Internal Address: _____

Street Address: 9155 Brown Deer RD. #8City: San Diego State: CA Zip: 92121

Additional names (s) & address(es) attached? () Yes () No

Additional names (s) of conveying party(ies) attached () yes () no

3. Nature of conveyance:

(X) Assignment () Merger
() Security Agreement () Change of Name
() Other _____Execution Date: May 9, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of application is _____

A. Patent Application No.(s)

09/599,969

B. Patent No.(s)

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sierra Patent Group, Ltd.

Internal Address: _____

Address: P.O. Box 6149City: Stateline State: NV Zip: 89449

7. Total fee (37CFR 3.41).....\$40.00

(X) Enclosed

() Authorized to be charged to deposit account

8. Deposit account Number: 50-0612

(Attached duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

William P. Wilbar

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents 5

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignment, Washington, D.C. 20231

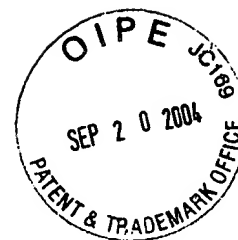
12/03/2002 LMUeller 00000041 09599969

11 FC:8021

40.00 0P

03/21/2002 13:16 FAX 310 477
03/18/2002 11:21 FAX

SHERWOOD PARTNERS INC
SULMEYER, KUPETZ, ETAL



007
008

05/03/01 THU 18:16 FAX 8502308605

PANTASMA NETWORKS

002

Legal Firm

Sierra Patent Group, Ltd.

Your Ref # Interval Ref. #

Application Title

Serial #

| | | |
|----|---|------------|
| 1 | Antenna Comprising Two Separate Wideband Notch Regions on One Coplanar Substrate | 09/384,952 |
| 2 | BASEBAND WIRELESS NETWORK FOR ISCHRONOUS COMMUNICATION | 09/393,126 |
| 3 | PULSE SHAPING FOR A BASEBAND WIRELESS TRANSMITTER | 09/408,414 |
| 4 | BASE BAND RECEIVER APPARATUS AND METHOD | 09/433,520 |
| 5 | MEDIUM ACCESS CONTROL PROTOCOL FOR CENTRALIZED WIRELESS NETWORK COMMUNICATION | 09/393,121 |
| 6+ | (PROVISIONAL) | 60/165,360 |
| 7 | FREQUENCY HOPPING FOR BASEBAND TRANSMITTERS | 09/393,040 |
| 8 | AN APPARATUS AND METHOD FOR MANAGING VARIABLE-SIZED DATA SLOTS WITHIN A TIME DIVISION | 09/393,122 |
| 9 | AN APPARATUS AND METHOD FOR MANAGING VARIABLE-SIZED DATA SLOTS WITH TIMESTAMP | 09/480,837 |
| 10 | WIRELESS TDMA SYSTEM AND METHOD FOR NETWORK COMMUNICATIONS | 09/603,310 |
| 11 | SYSTEM AND METHOD FOR OPTIMIZING NETWORK COMMUNICATIONS IN AN ULTRA WIDE BAND | 09/599,973 |
| 12 | ULTRA WIDE BAND TRANSMITTER | 09/599,969 |
| 13 | ULTRA WIDE BAND BASE BAND RECEIVER | 09/599,969 |
| 14 | ANTENNA COMPRISING TWO WIDEBAND NOTCH REGIONS ON ONE COPLANAR SUBSTRATE | 09/692,906 |
| 15 | ULTRA-WIDE BAND COMMUNICATION SYSTEM WITH AMPLITUDE MODULATION AND TIME | |
| 16 | Detecting an Ultra Wide Band Transmitter | |
| 17 | Link Adaptation and Receiver Calibration | |
| 18 | Peak Detector for Recovering Data | |
| 19 | Message Forwarding with Symmetric Encryption | |
| 20 | Maintaining Isynchronous clocks in a wireless network | |
| 21 | Compensation for a Narrow Band Interferer | |

Any PCT or foreign applications that fall under the US cases that are listed above, our file number will also be the reference for those cases.

If you note any discrepancies in our information, please notify Jennifer Zitzels (650) 842-6185.

03/21/2002 13:17 FAX 310 477
03/18/2002 11:21 FAX

SHERWOOD PARTNERS INC
SULMEYER, KUPETZ, ETAL

008
007

05/03/01 THU 18:18 FAX 6502306605

FANTASMA NETWORKS

003

Legal Firm

Your Ref #

Interval Ref. #

Application Title

Serial #

| | | | |
|--|----|---|--|
| | 22 | Quadrature Amplitude Modulation in a UWB system | |
|--|----|---|--|

Any PCT or foreign applications that fall under the US cases that are listed above, our file number will also be the reference for those cases.
If you note any discrepancies in our information, please notify Jennifer Zirtes (650) 842-6195.